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ARMY review
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INFORMATION REPORT

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PREPARED AND DISSEMINATED BY
CENTRAL INTELLIGENCE AGENCY

COUNTRY
Hungary

SUBJECT
Military Production of MOM
and Gamma Optical Works

DATE DISTRIBUTED

25 FEB 57

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THIS IS UNEVALUATED INFORMATION

This report was prepared as the result of a joint collection effort by the Army, Air Force and CIA and is disseminated by CIA in accordance with the provisions of NSCID #7.

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1. MOM, which is Hungary's chief optical equipment manufacturing plant, has been very active in the past five years in the production of optical height and distance finders, as well as gun directing instruments. The majority of the equipment produced was of Soviet specifications. All the blueprints were prepared in the USSR and sent to Hungary for production. Soviet advisors were available to supervise and direct the manufacturing of this equipment. 80% of the production was destined for the Hungarian Army, and only 20% was for the USSR or other satellites.

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2. The Gamma Factory, which is one of Budapest's well known optical plants, also is responsible for the assembly of equipment produced by MOM. During the past three years some of Gamma's important projects were reassigned to MOM because of inefficient work performed by the Gamma Factory.

3. Some of the important items manufactured by MOM and Gamma are:

- a. The optical height and distance measuring type DM-3 (Soviet concept) as shown on sketch. From 65 to 75 of these have been manufactured per year for the last 2½ years only. This equipment has an accuracy of plus or minus 0.5% and a maximum effective range of 4 to 5 km, with an error of plus or minus 20 meters for 5 km distance. The Hungarian Army used 85% of these.

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- b. In 1952 and 1953, MOM manufactured 250 to 300 gun directing optical instruments of a special Soviet type used in conjunction with 85 mm anti-aircraft guns.

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This equipment can also be used for ground targets with the same guns. For either purpose, the appropriate sections of the instrument are selected. For example, sections may be used for ground targets; or for air targets; or the three sections combined for other specific purposes. The Soviets provided blueprints and advisors to build, or supervise the building, of this equipment.

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c. From 1952 to 1954, MOM manufactured 250 to 300 optical gun-directing devices used on 57 mm anti-tank guns. These guns were used against Soviet tanks during the 1956 revolution.

d. MOM, from 1952 to 1955, also manufactured 400 to 500 model "ASZT" telescopes. [redacted] all these were destined for the Hungarian Army.

e. Early in 1956, the Soviets originated an entirely new type of optical height and distance finding device, somewhat similar to but much more effective than the DM-3. [See sketch [redacted] MOM was scheduled to produce 100 to 120 of these.

f. Gamma has also manufactured about 250 to 300 gun directing instruments to be used with the 37 mm anti-aircraft automatic guns. This was purely a Hungarian concept. The equipment is capable of tracking planes flying at 170 meters per second. However, because of the low-speed tracking capability, MOM was planning to improve this instrument by increasing its tracking capability to 300 meters per second. Production of the improved model was scheduled for sometime during 1957.

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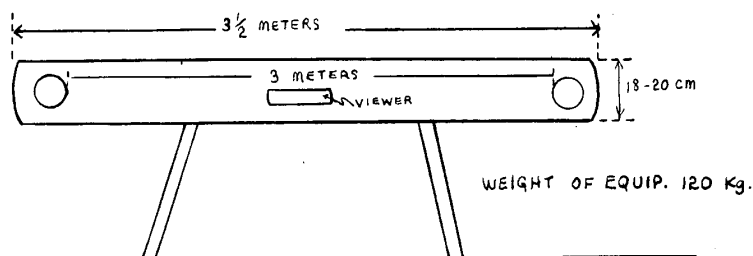
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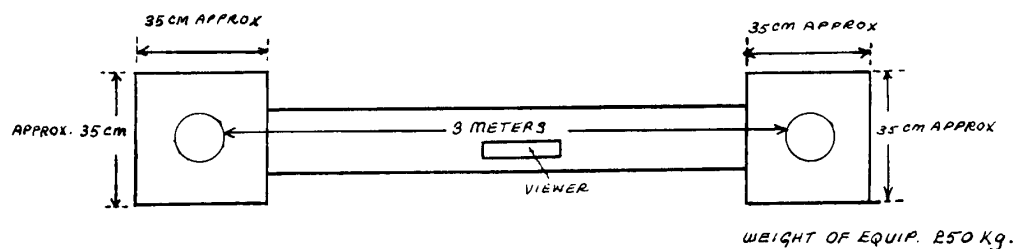
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ANNEX N° 1

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SKETCH N° 1 OPTICAL HEIGHT & DISTANCE FINDER - TYPE DM-3



SKETCH N° 2. LATEST TYPE SOVIET OPTICAL HEIGHT & DISTANCE FINDER, SCHEDULED FOR PRODUCTION IN HUNGARY IN 1957

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